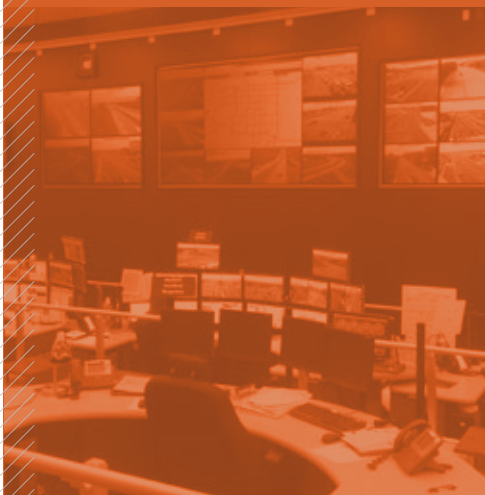


ANNUAL REPORT 2016



CITY OF
Springfield
PUBLIC WORKS



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FROM THE DIRECTOR:

In April 2016, Springfield citizens voted to renew the 1/4-cent Capital Improvement and 1/8-cent Transportation Sales Taxes by nearly 86%. This overwhelming support by the citizens is not only a testament to the past accomplishment of these sales taxes, but it is also a big vote of confidence for each and every Public Works employee. We believe a healthy infrastructure is one of the most important elements as we look to the future of our City and we're glad citizens agree.



We hope this Annual Report will help tell the story of our excellent team and add to the accountability and transparency we strive for in the community. We hope you will learn something new about our operations and mission. There may be a few things you won't expect.

In 2016, we got a little artistic – partnering with Sculpture Walk Springfield to find locations and install pedestals for 13 sculpture installations throughout Downtown Springfield. We got a little unconventional – testing out a “backward” parking method on Commercial Street. We also joined the fight against the spread of poverty in our community – joining the over 100 partners to help our neighbors in Northwest Springfield through Zone Blitz. And we stayed dependable – doing what we do everyday to maintain City roadways, clean streets, respond to emergencies and make sure citizens can get from point A to point B, all while striving for the highest quality of service for our citizens.

Thank you to the crewmembers, employees and contractors of Public Works for your daily dedication and service. And thank you to the citizens of Springfield for placing your trust in us.

Dan Smith, P.E.
Director



Kirk Juranas, P.E.
Assistant Director
ENGINEERING



Martin Gugel, P.E.
Assistant Director
OPERATIONS

BUDGET BREAKDOWN

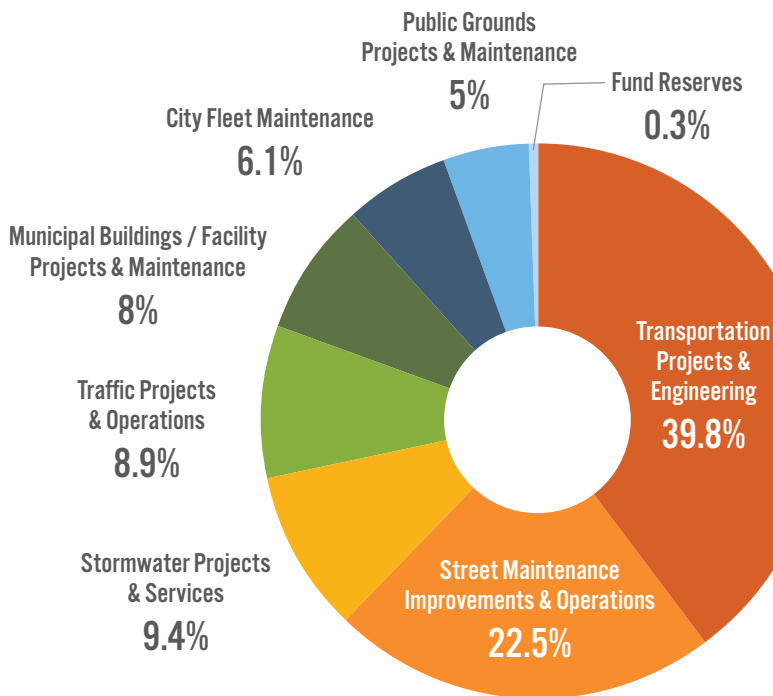
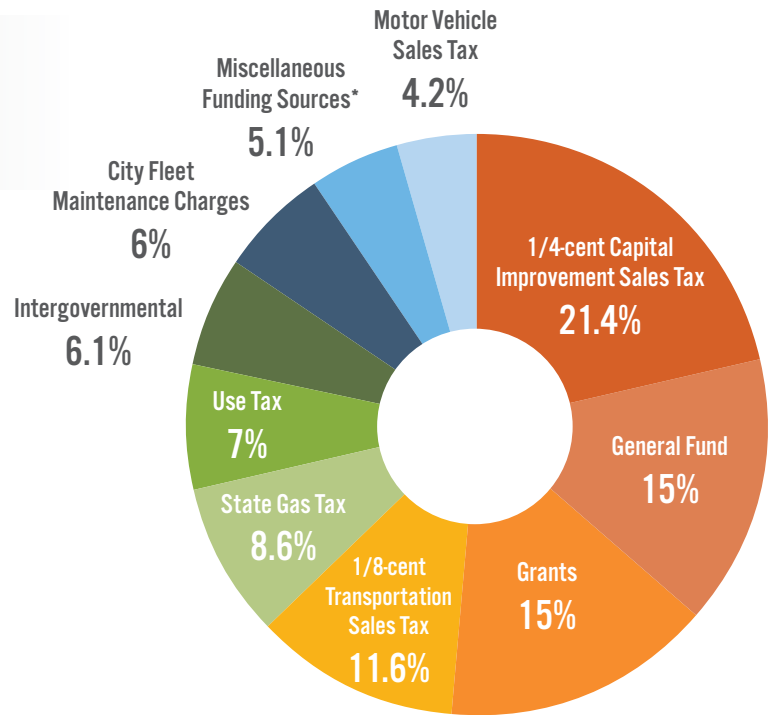
Funding Sources

FY 2016 ALL FUNDS - \$49,482,560

Public Works receives funding from a variety of sources including the voter-approved 1/4-cent Capital Improvement and 1/8-cent Transportation Sales Taxes.



* Miscellaneous Funding Sources include Utility Cut Repair Fees, Level Property Tax, and other miscellaneous funding.



Funding Uses

FY 2016 ALL FUNDS - \$49,482,560



Public Works and Environmental Services achieved accreditation from the American Public Works Association (APWA) in June 2013. The APWA accreditation program recognizes governmental agencies that go beyond the requirements of the management practices established nationally in the public works industry.

The APWA accreditation indicates that Public Works and Environmental Services staff are dedicated to concepts of continuous improvement and in-depth self-assessment of department policies, procedures, and practices. The departments will be seeking reaccreditation in 2017.



Public Works invests over \$8M in Zone Blitz effort

Springfield Public Works has committed to investing more than \$8 million over 18 months in infrastructure updates in the northwest quadrant of the city, including approximately 13,700 linear feet of new sidewalks in Bissett, Doling, Heart of the Westside, and Westside neighborhoods (\$500,000) and several stormwater improvement projects. Progress has also been made on several streetscape projects within Zone 1.

Planned Zone 1 improvements by neighborhood:

Heart of the Westside: The school sidewalk along Scott Avenue has been completed, adding nearly 3,000 linear feet of sidewalks near York Elementary School (\$100,000). The Nichols Park entrance and parking lot has been resurfaced, thanks to a partnership between Public Works and the Springfield-Greene County Park Board (\$38,000).

Doling: The Talmage Dip stormwater and sidewalk project is also underway, constructing a new box culvert at Dickerson Branch and improving safety for pedestrians with an added sidewalk along Talmage Street (\$100,000).

Midtown: The Commercial Street Streetscape was recently completed and includes a roundabout intersection at Commercial Street and Washington Avenue (\$1 million). Streetscape projects, in general, add decorative sidewalk, lighting, crosswalks and ADA improvements to a roadway. The Central and Pythian Corridor Improvement project was completed this summer (\$2.4 million).

Tom Watkins: The Homeland Subdivision stormwater improvement project is estimated for completion in 2017 (\$580,000). The Tom Watkins Park entrance and parking lot has been resurfaced, thanks to the partnership between Public Works and the Park Board (\$33,000).



West Central: The Phelps Street streetscape, between Campbell Avenue and Boonville Avenue, was completed in spring 2016 (\$400,000). The College Street streetscape and Broadway intersection project is currently underway (\$1.2 million).

Westside: The Mount Vernon road-widening project has been completed, widening the road from Orchard Crest Avenue to Suburban Avenue, improving stormwater infrastructure and adding sidewalks (\$1.6 million).

Woodland Heights: The Turner Street drainage improvement project was completed in Spring 2017 (\$650,000).

Grant Beach: Drainage improvements along Lyon Avenue were completed in summer 2016 (\$22,000). The Park Board resurfaced the basketball court at Grant Beach Park.

>> For more information on Zone Blitz, visit springfieldmo.gov/zoneblitz.



Republic Road Expansion project continues...

Republic Road is a major east-west arterial road in Springfield, providing access to various businesses and to James River Freeway. Public Works is continuing work on the multi-phase Republic Road Widening Project with the goal to improve traffic flow and access along the Republic Road corridor.

Construction for the Republic Road Widening Phase 3 project will begin in 2017 and will widen Republic Road to five lanes from just west of Parkcrest Avenue to Fairview Avenue.

This segment of Republic Road from Parkcrest to Fairview carries approximately 20,000 vehicles per day. The project will include the addition of bike lanes, sidewalks, stormwater infrastructure, gas and water utility renewals, and a new traffic signal at Broadway Avenue and Republic Road. Construction is expected to be completed by the end of 2017. The estimated cost for construction is \$2.2 million. The project is funded through the voter-approved 1/4-cent Capital Improvement Sales Tax.

Phase 1 of the Republic Road Widening Project began in April 2014 and included widening Republic to five lanes from Fremont Avenue west across the



bridge over James River Freeway. The intersection at Republic and National Avenue was rebuilt with dual left turn lanes in all four directions. This phase was completed in fall 2015 with a construction cost of \$7.5 million, funded by the 1/4-cent Capital Improvement Sales Tax (45 percent) and 1/8-cent Transportation Sales Tax (55 percent).

Phase 2 began in June 2015 and continued the widening of Republic Road to five lanes from Kansas Avenue east to Parkcrest Avenue and included the addition of bike lanes and sidewalks. This phase also included the widening of the Republic Road Bridge over James River Freeway at Lark Avenue. Phase 2 was completed in April 2016 with construction costs totalling \$4.1 Million, funded by the 1/8-cent Transportation Sales Tax and Federal funds. The contractor for phases 1-3 of the widening project is Hartman Construction.



PW teams up with bridge experts

Springfield's 115-year old Jefferson Avenue footbridge north of Commercial Street closed March 1, 2016 after Public Works inspectors found corrosion and steel loss in the north support column. While the bridge was not in imminent danger, it was deemed in the public's best interest to close the bridge to conduct a full evaluation and determine repair options.

Public Works hired Springfield-based civil engineering firm Great River Engineering (GRE) to conduct an in-depth structural evaluation of the bridge. GRE has rehabilitated several bridges in the region, including Riverside Bridge and Mill Pond Bridge in Ozark, Devil's Elbow Bridge in Pulaski County and the Meramec River U.S. 66 Bridge in Eureka.

GRE presented multiple options for rehabilitation, preservation and replacement of the bridge to City Council, and the City conducted a public input survey to gauge the community's preference on what to do about the bridge.

"As with most local governments, the City of Springfield deals with increasing infrastructure needs with limited funding opportunity," explained Public Works Director Dan Smith. Springfield's team calculated bridge life cycle cost to help understand the true cost of alternatives.

City Council evaluated potential options for rehabilitation and gave approval to move forward with the structural design phase of the preservation and directed staff to create a funding proposal to keep the bridge preserved.

TRAFFIC



TRAFFIC OPERATIONS

Traffic Operations is responsible for traffic planning and design, sign and signal operations and traffic data collection.

SPECIAL PROJECTS:

Jefferson Avenue Streetscape Phase 1

Construction of the Jefferson Streetscape included new stormwater, ADA sidewalks, decorative streetlights, and street resurfacing from Water Street to Phelps Street.



Commercial Street Parking

As a part of the Commercial Street Parking Study, Traffic Operations and Public Information implemented an eight-week reverse angle parking pilot that included an educational campaign and public outreach. Though the reverse angle parking was not chosen as the final implementation, Traffic Operations reconfigured the south side of Commercial Street from parallel parking stalls to front angle stalls creating 80 additional stalls for the street.

City Utilities Bus Transfer Station updates

With the completion of CU's Transit Center came new bus routes and the retirement of others. Traffic staff assisted with the installation and removal of bus stop signage throughout the city. Traffic and Transportation Engineering staff implemented the city's first separated bike lanes on Main Avenue as a part of the Main Avenue Streetscape/CU Transfer Center opening.

Sculpture Walk Installation

Traffic staff assisted Sculpture Walk with encroachment agreements, appropriate sculpture locations and the final pedestal/sculpture installations at 13 locations throughout Downtown Springfield.



SIGN SHOP

5,019 TOTAL SIGNS INSTALLED in 2016, including:

675 Street Name signs

3,217 Warning, Regulatory, and Guide signs

699 Decals

49 Informational Billboards

379 Special signs for other Departments



Railroad Crossing Improvements

Traffic staff worked with both Burlington Northern Santa Fe (BNSF) and Missouri Northern Arkansas (MNA) railroads to complete vehicular and/or pedestrian crossing improvements throughout the City of Springfield. Improvements were completed at the following locations:

BNSF:

- Mulroy Road/FR 199
- Bob Barker Ped Crossing
- Packer Road Line
- Farm Road 123
- Junction Street
- Central Street
- Jefferson Avenue
- Division Street east of Kansas Expressway
- Lyon Avenue

MNA:

- Springfield Botanical Gardens Entrance
- Catalpa Street
- Fort Avenue

New Pedestrian Push-button Sign Installation

Traffic staff upgraded the pedestrian push-button crossing signs at all signalized locations for uniformity as a maintenance project throughout the entire city.

All-Way Stop Installations

Traffic staff studied and subsequently implemented all-way stops at two intersections on Commercial Street – at Robberson Avenue and at Benton Avenue – to better accommodate pedestrians and alleviate sight obstructions from angled parking on the south side of Commercial Street. An all-way stop was also added at the intersection of Fairview Avenue and LaSalle Street in the Parkrest neighborhood after a traffic study was conducted in response to citizen concerns.

Trail of Tears Sign Package Installation

Traffic staff worked with local advocates and the National Park Service to identify and implement signs that mark the Trail of Tears route across Springfield.

School Circulation Evaluations

Pipkin Middle School and Immaculate Conception – Traffic staff worked with school administrators for both Pipkin Middle School and Immaculate Conception to minimize traffic congestion at school dismissal times on Boonville Avenue and Fremont Avenue, respectively.

2016 CRASH DATA

Springfield Public Works tracks the number, type and severity of crashes that occur on city streets. This data helps engineers determine whether or not an engineering solution could improve traffic safety.

6,056 TOTAL CRASHES
occurred on city streets in 2016.

CRASH SEVERITY	2015	2016
Fatality Crashes	20	18
Injury Crashes	1,735	1,973
Property Damage Only	3,933	4,065
TOTAL CRASHES	5,688	6,056

CRASH TYPE	
Rear End Crashes	2,293
Angle Crashes	1,962
Sideswipe - Passing Crashes	677
Backed Into Crashes	100
Sideswipe - Meeting Crashes	58
Head On Crashes	19
Undetermined Cause	947
TOTAL	6,056

74 crashes involved a pedestrian.
4 of these were fatalities.

65 crashes involved a bicycle.
3 of these were fatalities.

TRANSPORTATION MANAGEMENT

Transportation Management division is responsible for maintaining signal operations, traffic cameras, and dynamic message signs (DMS) as well as traffic data collection. Public Works partners with the Missouri Department of Transportation to implement a cooperative computerized traffic signal system to improve Springfield's street capacity. The Transportation Management Center (TMC) shares information from this system with the public through a cooperative website – OzarksTraffic.com.



The Transportation Management Center manages...



> 125 CCTV Cameras covering 108 miles of freeway, arterial & secondary streets

> 85 WiFi Sensors capable of collecting data on travel times via mobile devices



> 37 Dynamic Messaging Signs (DMS)

> Traffic devices are connected by 105 miles of fiber optic cable and 33 miles via wireless communications.

TRAFFIC INCIDENT RESPONSE

22,300

Traffic incidents reported and posted to ozarkstraffic.com

2,027

Incidents confirmed by TMC via CCTV camera system

DMS MESSAGES

42

incident related messages posted per month.

35

Maintenance or construction related messages posted per month.

SIGNAL SHOP

139 City Maintained Traffic Signals

129 MoDOT Signals

268 TOTAL TRAFFIC SIGNALS

Flashing yellow left-turn arrows begin replacing yield-on-green signals

Eleven intersections on City routes were outfitted with new flashing yellow left-turn arrows in 2016. These types of yield signals are becoming more common in Springfield after a change in federal traffic regulations making the flashing yellow arrow the standard for yielding left turn signals.

Traffic engineers consider flashing yellow left-turn arrows safer because they provide a more direct message to drivers to yield to oncoming traffic than solid green circular signals. Flashing yellow arrows decrease traffic delays and are especially effective at intersections with high volumes of traffic.



OPERATIONS



STREET OPERATIONS

The Street Operations division is a maintenance- and project-driven operation. Street Operations mixes in-house work with outsourced work to perform core functions, such as filling potholes, rehabilitating roadway surfaces, maintaining flow in stormwater channels, repairing trip hazards in sidewalks, patching utility cuts, and completing various projects. During the winter and severe weather events, the division will stop project activities and road maintenance to address emergency work such as snow removal and flooding.

STREET OPERATIONS MAINTAINS...

- > 4.6 lane miles of alleyways
- > 1,751 lane miles of streets
- > Over 700 miles of sidewalk
- > 16.43 miles of brick sidewalk
- > 63 vehicle bridges
6 pedestrian bridges
- > 541 stormwater grates
- > 2,758 work orders received and CLOSED



COMPLETED IN 2016:

- 2,298 potholes repaired.
- Cleared stormwater grates of debris and blockages 3,522 times.
- Regularly checked sinkholes, waterways under bridges, detention ponds, and completed biannual bridge inspections.
- Four railroad crossing improvements.

STORMWATER & DRAINAGE MAINTENANCE

- Received 399 service requests for drainage and flooding issues. Street Operations crews assess reports of flooding on a residential property or business and respond by cleaning out ditches, inlets or grates, unblocking culverts, clearing debris from bridges and pumping excess water from sinkholes.
- 5,248 linear feet of ditching cleared of sediment and debris.



SNOW REMOVAL

- 775 lane miles are designated for plowing.
- 27,100 lane miles plowed per average year.
- 4,326 linear feet of sidewalk adjacent to public facilities cleared.

UTILITY CUTS

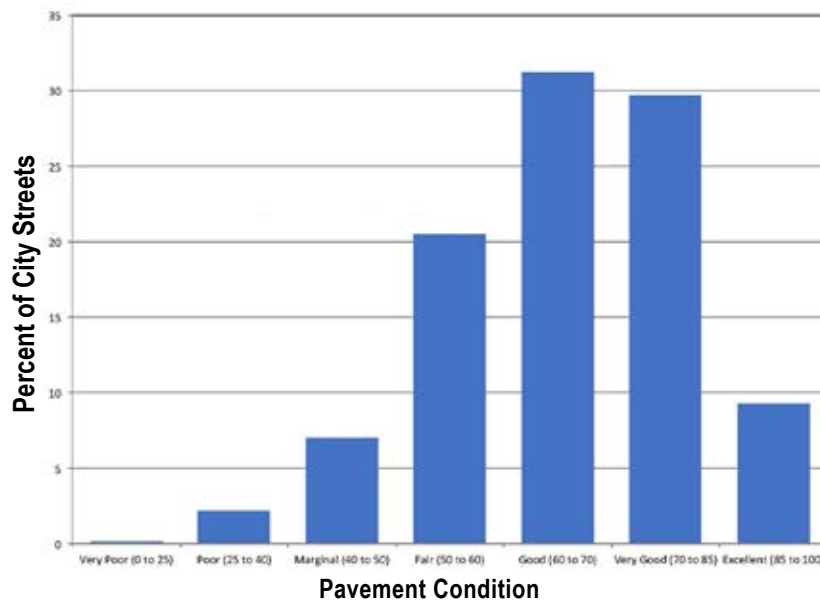
Street Operations completes the final repairs to the street upon completion of any service to underground utility or communications lines. A company must request a permit and reimburses the City for necessary repairs.

- 980 utility cut permits were issued to communication/utility companies.
- 1,414 utility cut permits completed.

STATE OF THE STREETS

According to a recent inspection by a third-party pavement condition rating contractor, 70 percent of Springfield streets are rated in good condition or better. This comprehensive assessment of city streets is used to identify areas of need and plan future maintenance and repairs.

City of Springfield Pavement Condition Using Descriptive Terms



Total lane miles of
City streets = 1,751

88% are Asphalt
12% are Concrete

70% of Springfield streets are rated in
GOOD condition OR BETTER.

According to a recent inspection by IMS Infrastructure Management Services



PAVEMENT MAINTENANCE OVERVIEW

The Public Works Street Operations Division utilizes multiple pavement management methods to repair, maintain and extend the life of City streets. These maintenance programs are funded primarily through the Major Street Resurfacing/Rehabilitation program of the voter-approved 1/8-cent Transportation and 1/4-cent Capital Improvements Sales Taxes. An appropriate rehabilitation method is chosen to match the type of deficiency detected.

- > Asphalt Mill & Overlay
- > Chip & Seal
- > Concrete Street Repair
- > Crack Seal
- > Microsurface
- > Rejuvenator
- > Crackfiller Restorative Seal (CRF)
- > Diamond Grinding
- > Spray Seal
- > Slurry Seal

132 TOTAL LANE MILES
of city streets were
REHABILITATED in 2016.

PUBLIC GROUNDS

Public Grounds is responsible for the design, planning, planting and management of vegetation along city rights-of-way, facility grounds and beautification projects within Springfield.



Right-of-Way & Waterway Maintenance:

The Public Grounds division conducts cleaning, mowing, debris removal and general maintenance of city rights-of-way and waterways (detention basins, sinkholes, channels and ditches).

- 4,165 lane miles of streets cleaned.
- 5,575 cubic yards of debris collected.
- 697 acres of roadside maintained and mowed.
- 1,405 acres of City-owned lots mowed.
- 512 deceased animals removed.
- 708 acres of waterways mowed.
- 130 acres of flow lines cleared.
- 348 cubic yards of debris cleared from waterways.

Trees and Landscaping:

The City cares for over 20,000 public trees, 25 acres of landscaped street medians and parkways, and 65 acres of City facilities and other properties throughout the city.

- 2,817 trees pruned.
- 36 emergency events.
- 3,158 cubic yards of debris collected.
- 639 new trees planted.
- 324 trees removed.
- 417 trees monitored.

Hazelwood Municipal Cemetery:

Hazelwood Cemetery was opened in 1867 and at 60 acres, it is the largest city-owned cemetery in the state with over 44,000 grave spaces. In addition to maintaining the grounds, the Public Grounds division conducts lot sales and performs burial services for the cemetery. Three complete cleanups of the grounds are conducted annually in March, June, and August. In 2016, Hazelwood conducted:

- 123 interments.
- 53 graves sold.



CONSTRUCTION INSPECTION

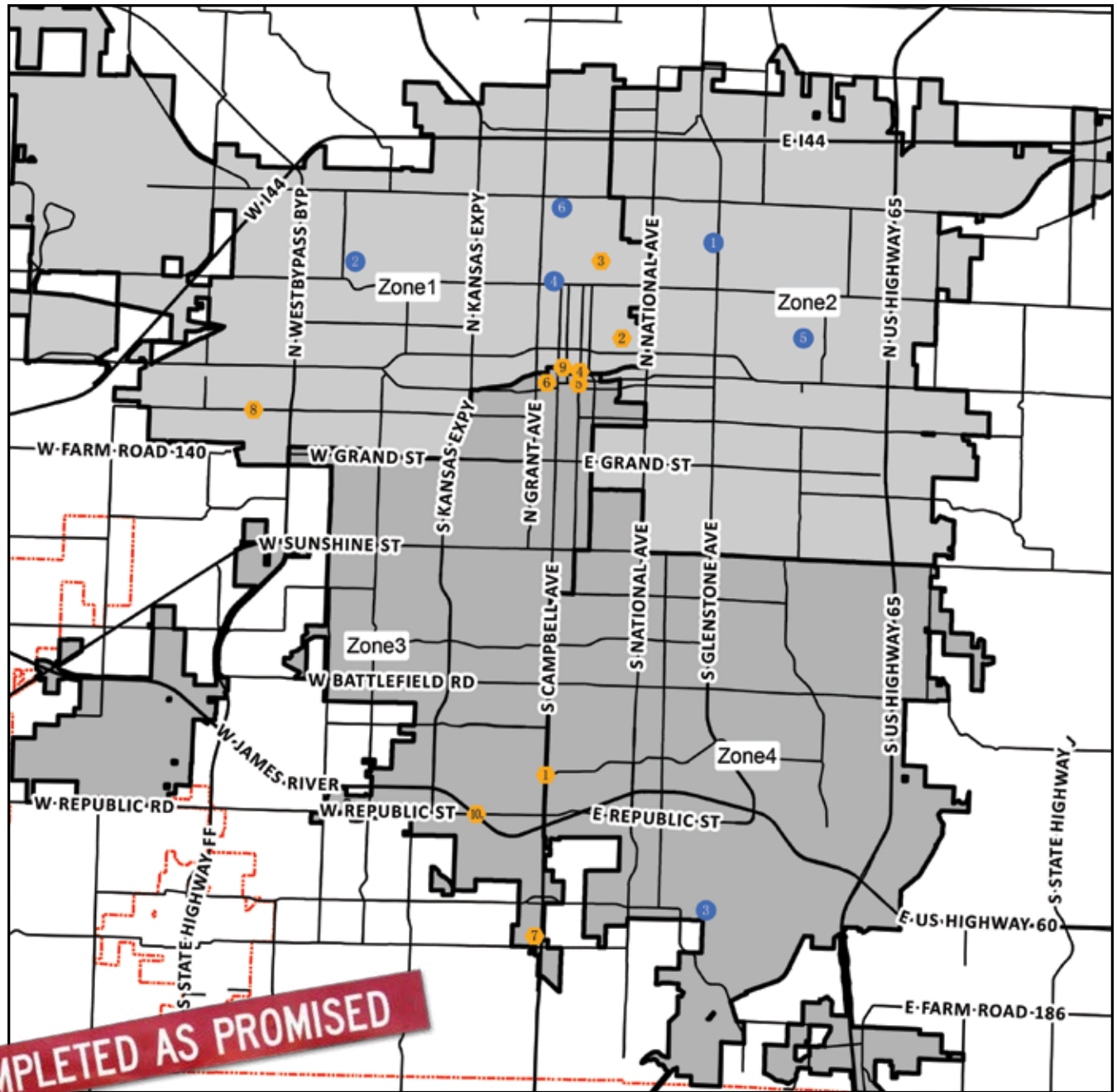
Construction Inspection is responsible for inspection of all public infrastructure including permits, streets, sewers, and stormwater. Construction Inspection is the last line of defense to ensure the public is getting what they pay for and the City is receiving a quality product to maintain.

During 2016, Public Works' Construction Inspection division inspected over 101 active projects which include City-funded capital improvement projects and private projects requiring public improvements.

Inspection staff coordinated traffic control for, and inspected 347 excavation permits, 165 driveway permits, and assisted the Building Development Services department with stormwater inspections. The group processed 27 escrows to allow for quicker completion of private developers' projects.

ENGINEERING

2016 COMPLETED PROJECTS



Legend

- | | |
|--|--|
| 1 Atlantic and Glenstone Stormwater Improvements | 3 Commercial Street Streetscape Phase 5 |
| 2 Homeland Subdivision Stormwater Improvements | 4 Jefferson Avenue Streetscape Phase 1 |
| 3 Ravenwood South Stormwater Improvements Phase I | 5 Jefferson Avenue Streetscape Phase 2 |
| 4 Stormwater Improvements for Lyon Ave. and Division St. | 6 Main Avenue Streetscape |
| 5 Stormwater Improvements for North Patterson and East Pythian | 7 Market & Bryant Roadway Improvements |
| 6 Turner St. Drainage Improvements | 8 Mt. Vernon Street Widening - Orchard Crest to Suburban |
| 1 Campbell & Primrose Intersection Improvements | 9 Phelps Street Streetscape |
| 2 Central & Pythian Roadway Improvements | 10 Republic Road - West Bridge over James River Freeway |

TRANSPORTATION ENGINEERING

The Transportation Engineering division designs public improvements constructed in the city of Springfield, including streets, intersections, streetscapes and bridges. It's also responsible for right-of-way property acquisitions for public uses, surveying public property and production and maintenance of city maps and drawings.

2016 COMPLETED PROJECTS:

✓ Campbell & Primrose Intersection Improvements

This project provided roadway and stormwater improvements to the intersection and surrounding area at Campbell Avenue and Primrose Street. The project widened the intersection and added dual left turn lanes on southbound Campbell Avenue and westbound Primrose Street. The project also extended the northbound third lane on Campbell Avenue from South Avenue to Primrose Street.

Design Consultant: CJW Transportation Consultants

Contractor: Hartman & Company

Construction Cost: \$2,598,000

✓ Jefferson Avenue Streetscape Phase 2

This project continued the streetscape improvements previously constructed downtown. The project included the construction of ADA-compliant sidewalks, lighting enhancements and signal reconstruction on Jefferson Avenue from Park Central East to Water Street and on Olive Street from Robberson Avenue to Jefferson Avenue.

Design Consultant: CJW Transportation Consultants

Contractor: Hunter Chase & Associates

Construction Cost: \$1,318,000

✓ Phelps Street Streetscape

This project completed streetscape improvements on the block of Phelps Street immediately north of the Brick City redevelopment area. The project included the construction of ADA-compliant sidewalks and lighting enhancements on Phelps Street from Campbell Avenue to Boonville Avenue.

Design Consultant: CJW Transportation Consultants

Contractor: Hunter Chase & Associates

Construction Cost: \$443,000

✓ Republic Road - West Bridge over James River Freeway

This project consisted of widening the Republic Road Bridge over James River Freeway at Lark Avenue and widening Republic Road to five lanes from Kansas Avenue to Parkcrest Avenue.

Design Consultant: Crawford Murphy & Tilly

Contractor: Hartman & Company

Construction Cost: \$4,105,000

✓ Central & Pythian Roadway Improvements

This project connected Central Street to Pythian Street with a new roundabout at Sherman Avenue. These improvements incorporated a complete street design to provide a system for vehicles, bikes and pedestrians to encourage all forms of transportation.

Design Consultant:

CJW Transportation Consultants

Contractor: Hartman & Company

Construction Cost: \$2,412,000



✓ Main Avenue Streetscape

This project completed streetscape improvements along Main Avenue between College Street and a point south of the railroad right-of-way. The project included ADA-compliant sidewalks, new storm sewer, new roadway improvements, rain gardens and lighting enhancements.

Design Consultant: Olsson Associates

Contractor: Hunter Chase & Associates

Construction Cost: \$618,000

✓ Mount Vernon Street Widening - Orchard Crest to Suburban

This project included widening Mount Vernon Street from a point east of Orchard Crest Avenue to a point west of Suburban Avenue. The project widened Mount Vernon Street to a three-lane section, with a center turn lane. The project also included new pavement, new sidewalk, updated storm sewer system and gas and water relocations.

Design Consultant: Great River Engineering

Contractor: Hartman & Company

Construction Cost: \$1,655,000



✓ Commercial Street Streetscape Phase 5

This project included streetscape improvements along Commercial Street from Benton Avenue through Washington Avenue. The project included new pavement, construction of ADA-compliant sidewalks, lighting and landscaping enhancements, updated storm sewer system, and a water line renewal. The project also included a new mini-roundabout at the intersection of Commercial Street and Washington Avenue.

Design Consultant: CJW Transportation Consultants

Contractor: Hunter Chase & Associates

Construction Cost: \$934,000

✓ Jefferson Avenue Streetscape Phase 1

This project included streetscape improvements along Jefferson Avenue from Phelps Street to Water Street. The project included new pavement, ADA-compliant sidewalks, replacement of curb and gutter, updated storm sewer system, intersection improvements and gas and water main renewals.

Design Consultant: CJW Transportation Consultants

Contractor: Hunter Chase & Associates

Construction Cost: \$583,000

✓ Market Avenue at Bryant Street

This project included construction of Market Avenue from Bryant Street south to existing Market Avenue. The project included new pavement, new sidewalk, new storm sewer and replacement of sanitary sewer.

Design Consultant: Olsson Associates

Contractor: Hunter Chase & Associates

Construction Cost: \$269,000

STORMWATER ENGINEERING

The Stormwater Engineering division works closely with the Water Quality division of the Department of Environmental Services to provide programs, improvement projects, and services to meet the stormwater management needs of the community, reduce potential flood hazards and protect area waterways.

2016 COMPLETED PROJECTS:

Ravenwood South Stormwater Improvements Phase I

Residents in Ravenwood South subdivision, located in southeast Springfield, have experienced flooding for many years. The channel lacked sufficient capacity to keep homes dry in major storm events. The channel also showed signs of instability.

Phase I of the project involved enlarging an existing detention basin as well as construction of a new detention basin further downstream. These improvements will provide immediate benefits for everyone along the channel by reducing flows approximately 20 to 50 percent depending on the location and the storm event. The new basins will also slow down the erosion and improve water quality in Lake Springfield.

Design Consultant: Olsson Associates

Contractor: Flat Creek Excavating

Construction Cost: \$734,000



BEFORE



COMPLETED BASIN

✓ Turner Street Drainage Improvements

This stormwater project will improve the drainage and infrastructure along Turner Street from Lyon Avenue to Boonville Avenue. This project will include the construction of a detention basin as well as an underground storm sewer system along Turner Street to reduce street flooding and resolve other drainage related issues.



Design Consultant: HDR Engineering

Contractor: Hartman & Company

Construction Cost: \$650,000

✓ Improvements for North Patterson and East Pythian

The project will include retrofitting two detention basins, located on the north side of Pythian Street in the Cooper Park complex, as well as the installation of new underground stormwater pipe along the north side of Pythian Street and the west side of Patterson Avenue.

Design Consultant: HDR Engineering

Contractor: Hartman & Company

Construction Cost: \$1,292,000

✓ Improvements for Lyon Avenue and Division Street

Installed new inlets in Lyon Avenue north of Division Street as well as underground storm sewer pipe to eliminate flooding of Lyon Avenue.

Design Consultant: None (designed in-house)

Contractor: None (Bridge and Waterways division crews)

Construction Cost: \$22,000

✓ Homeland Subdivision Stormwater Improvements

This project will provide stormwater and sidewalk improvements to Pacific Street and Hillcrest Avenue which includes constructing a 2.5 foot tall by 6 foot wide underground concrete box culvert along the north side of Pacific Street from Colgate Avenue to Hillcrest Avenue. A 30 inch underground concrete pipe will be constructed along the east side of Hillcrest Avenue from Pacific Street north to Thoman Street.



Design Consultant: Heithaus Engineering & Associates

Contractor: Hamilton & Dad

Construction Cost: \$580,000

GENERAL SERVICES

The General Services division is responsible for the repair and maintenance of all City buildings and vehicles. Keeping internal maintenance services is an efficient way of maintaining and protecting City property.

FACILITY MAINTENANCE

Facilities Maintenance is responsible for the administration and maintenance of all city buildings and facilities.

- > 4,000 annual work orders completed.
- > 5,200 annual preventive maintenance work orders completed.
- > Maintains approximately 98 publicly owned City buildings on 43 separate sites.
- > 80 City/County early warning storm siren maintenance and repairs.
- > Busch Municipal Building basement moisture mitigation and remodel.



FACILITY DESIGN & CONSTRUCTION

Facility Design & Construction is responsible for the design of construction improvements to City facilities.

2016 PRIORITY PROJECTS:

- > Environmental Health Services building wall repair
- > City Hall exterior window painting
- > Fire Station No. 3 reroof and transite panel removal/replacement
 - Construction to take place in 2017.
- > Design for Busch Municipal Building carpet replacement (Floors 1-5)
 - Installation will take place in 2017.
- > Design for Police headquarters fence and new curbing
 - Construction to begin in June 2017.



SERVICE CENTER

The Service Center is responsible for the administration, maintenance and repair of not only Public Works vehicles and equipment, but also that of the Springfield Police Department, Fire Department and Environmental Services, among others.



- > 1,700 preventive maintenance services performed annually.
- > 4,000 work orders completed annually.
- > 1,415 TOTAL UNITS are maintained by the Service Center, including:
 - 207 sedans
 - 112 SUV's
 - 163 pickup/light-duty
 - 67 medium-duty (box trucks, flatbeds)
 - 100 heavy-duty (dump trucks, etc.)
 - 188 tractor/mower/excavating
 - 578 non-self propelled (trailers, generators, etc.).



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